

## apyrase

Cat. No. EXWM-4623

Lot. No. (See product label)

### Introduction

**Description** Apyrases are active against both di- and triphosphate nucleotides (NDPs and NTPs) and hydrolyse NTPs to nucleotide monophosphates (NMPs) in two distinct successive phosphate-releasing steps, with NDPs as intermediates. They differ from ATPases, which specifically hydrolyse ATP, by hydrolysing both ATP and ADP. The eukaryotic enzymes requires  $\text{Ca}^{2+}$ , but  $\text{Mg}^{2+}$  can substitute. Most of the ecto-ATPases that occur on the cell surface and hydrolyse extracellular nucleotides belong to this enzyme family.

**Synonyms** ATP-diphosphatase; adenosine diphosphatase; ADPase; ATP diphosphohydrolase [ambiguous]

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 3.6.1.5

**CAS No.** 9000-95-7

**Reaction** a nucleoside 5'-triphosphate + 2  $\text{H}_2\text{O}$  = a nucleoside 5'-phosphate + 2 phosphate (overall reaction); (1a) a nucleoside 5'-triphosphate +  $\text{H}_2\text{O}$  = a nucleoside 5'-diphosphate + phosphate; (1b) a nucleoside 5'-diphosphate +  $\text{H}_2\text{O}$  = a nucleoside 5'-phosphate + phosphate

**Notes** This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

### Storage and Shipping Information

**Storage** Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.